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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,550	07/22/2003	Shin-Hsin Chang	MR3315-3	6036
4586 75	590 12/12/2005	EXAMINER		
ROSENBERG, KLEIN & LEE			LECHERT JR, STEPHEN J	
	T CENTER DRIVE-SU TY, MD 21043	JITE 101	ART UNIT	PAPER NUMBER
	•		1732	

DATE MAILED: 12/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/623,550	CHANG ET AL.			
		Examiner	Art Unit			
		Stephen J. Lechert Jr.	1732			
	- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status						
-	Responsive to communication(s) filed on <u>30 September 2005</u> . This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on 7-22-2003 is/are: a) a specificant may not request that any objection to the capelacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	accepted or b) objected to by the drawing(s) be held in abeyance. See on is required if the drawing(s) is objection	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage			
	e of References Cited (PTO-892)	4) 🔲 Interview Summary (
3) Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:				

Àpplication/Control Number: 10/623,550 Page 2

Art Unit: 1732

DETAILED ACTION

- 1. Applicant's arguments and amendments have been fully and carefully considered. However, applicant's amendments have introduced new matter into the claims of the case. Accordingly, a new ground of rejection follows necessitated by amendment.
- 2. Claims 1 and 2 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. By amendment applicant has introduced the term "non-complexed" metal or "non-complexed metal oxide" nanoparticles. The specification provides no basis for this terminology and applicant has not pointed to any part of the specification for basis for this amendment. Accordingly this constitutes new matter.

Application/Control Number: 10/623,550 Page 3

Art Unit: 1732

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 2 remain rejected under 35 U.S.C. 102(b) as being anticipated by Arney et al. USP 6,329,058.

Arney et al. teach a manufacturing method to produce polymer chips containing metal oxide nanoparticles, comprising the steps of pre-mixing metal oxide nanoparticles with at least one polymer material to generate a composite material containing metal or metal oxide nanoparticle, drying the mixture, and blending and extruding the composite materials to form a polymer chip with dispersed metal or metal oxide nanoparticles contained therein. [Note the abstract, column 9, lines 22-46, column 10, lines 39-40 and Figure 4, note elements 52, 54, 56 and 58]

5. Applicant's recitation of non-complexed metal or metal oxide nanoparticles constitute new matter and accordingly the claims

Application/Control Number: 10/623,550

Art Unit: 1732

remain unpatentable over Arney et al. since metal oxide nanoparticles and metal nanoparticles mixed with a polymer formed into composite which is dried, blended and extruded forming a polymer having dispersed metal oxide or metal nanoparticles dispersed therein has been taught. Applicant's arguments are moot because there is no basis for non-complexed metal or metal oxide particles. With respect to applicant's arguments that the polymer with metal nanoparticles is going to be used as a disinfectant or an antibiosis, the functionality and intended use has no bearing in determining patentability of a method of making a polymer composite containing metal or metal oxide nanoparticles dispersed within a polymer.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of

Art Unit: 1732

this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Lechert Jr. whose telephone number is 571-272-1203. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/623,550 Page 6

Art Unit: 1732

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen J. Lechert Jr.

Primary Examiner

Art Unit 1732